CLAIMS

What is claimed is:

A power supply circuit for a digital processing system, the circuit comprising:

a first stage associated with a first component of the digital processing system;

- 3 and
- a second stage associated with a second component of the digital processing
- 5 system, said second stage coupled to said first stage;
- 6 wherein said first stage drives said second stage.
- 1 2. The circuit of claim 1, wherein said first and second stages are separated from 2 each other.
- 1 3. The circuit of claim 2, wherein said first and second stages are coupled to each 2 other by a two wire bus.
- 1 4. The circuit of claim 3, wherein said two wire bus is differentially driven by said
- 2 first stage.
- 1 5. The circuit of claim 2, wherein said first component comprises a display device
- 2 and said second component comprises a microprocessor.
- 1 6. The circuit of claim 5, wherein said first stage is located proximately to said
- 2 display device and said second stage is located proximately to said microprocessor.
- 1 7. The circuit of claim/1, wherein said first stage provides power for said first
- 2 component and said segond stage provides power for said second component.

- 1 8. The circuit of claim 7, wherein said first stage comprises a flyback converter and
- 2 said second stage comprises a portion of a forward converter.
- 1 9. A power supply circuit for a computer system, the circuit comprising:

 a first circuit capable of providing power to a first component of the computer
- 3 system; and
- a second circuit capable of providing power to a second component of the computer system;
- 6 wherein said first and second circuits are electrically coupled to each other.
- 1 10. The circuit of claim 9, wherein said first and second circuits are electrically coupled to each other such that said first circuit can drive said second circuit.
- 1 11. The circuit of claim 10, wherein said second circuit and said second component 2 are disposed on a printed circuit board.
- 1 12. The circuit of claim 9, wherein said first circuit is located within an enclosure of the computer system and proximately to said first component, and wherein said second
- 3 circuit is located within said enclosure and proximately to said second component.
- 1 13. The circuit of claim 12/ wherein said first component comprises a display device 2 and said second component comprises a microprocessor.
- 1 14. The circuit of claim 9 wherein said first circuit comprises a flyback converter and 2 said second circuit comprises a final stage of a forward converter.
- 1 15. A computer system comprising:

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a power supply circuit coupled to at least a display device and a microprocessor
of the computer system, wherein said power supply circuit is capable of supplying
power to said display device and said microprocessor using at least two distinct power
supply stages.

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- 16. The computer system of claim 15, wherein/said power supply circuit comprises:
- a main circuit coupled to one of said display device and said microprocessor;
- 3 and
- a secondary circuit coupled to the other of said display device and said
- 5 microprocessor;
- 6 wherein said main circuit drives said/secondary circuit.
- 1 17. The computer system of claim 16 wherein one of said at least two distinct power
- 2 supply stages includes said main circuit, and wherein another of said at least two
- 3 distinct power supply stages includes \$aid secondary circuit.
- 1 18. The computer system of claim 16, wherein said main circuit and said secondary
- 2 circuit are physically isolated from each other.
- 1 19. The computer system of claim 18, wherein said main circuit and said secondary
- 2 circuit are electrically coupled to/each other.
- 1 20. The computer system of claim 16, wherein said main circuit comprises a flyback
- 2 converter and said secondary circuit comprises a portion of a forward converter.

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